

UNITED STATES PATENT AND TRADEMARK OFFICE

W

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO |
|-------------------------------------|-----------------|----------------------|-------------------------|-----------------|
| 09/973,186 | 10/09/2001 | Gregory Jantsch | 13543-003001 | 4489 |
| 26161 | 7590 06/06/2005 | | EXAMINER | |
| FISH & RICHARDSON PC | | | KIM, AHSHIK | |
| 225 FRANKLIN ST BOSTON, MA 02110 | | | ART UNIT | PAPER NUMBER |
| , | | | 2876 | |
| | | | DATE MAILED: 06/06/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

| | Application No. | Applicant(s) | | |
|--|--|--|--|--|
| | 09/973,186 | JANTSCH, GREGORY | | |
| Office Action Summary | Examiner | Art Unit | | |
| | Ahshik Kim | 2876 | | |
| The MAILING DATE of this communication Period for Reply | n appears on the cover sheet w | vith the correspondence address | | |
| A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b). | ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of the eriod will apply and will expire SIX (6) MO statute, cause the application to become A | reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this communication. NBANDONED (35 U.S.C. § 133). | | |
| Status | | | | |
| 1)⊠ Responsive to communication(s) filed on 3 | 3/10/05 (Amendment) | | | |
| | | | | |
| · <u>-</u> | | tters, prosecution as to the merits is | | |
| 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | |
| · | | | | |
| Disposition of Claims | | | | |
| 4) Claim(s) 1-38 is/are pending in the applica | | | | |
| 4a) Of the above claim(s) is/are with | drawn from consideration. | | | |
| 5) Claim(s) is/are allowed. | | | | |
| 6)⊠ Claim(s) <u>1-38</u> is/are rejected. | | | | |
| 7) Claim(s) is/are objected to. | • | | | |
| 8) Claim(s) are subject to restriction ar | nd/or election requirement. | | | |
| pplication Papers | | | | |
| 9) The specification is objected to by the Exan | miner | | | |
| 10) The drawing(s) filed on is/are: a) | | by the Evaminer | | |
| Applicant may not request that any objection to | | - | | |
| Replacement drawing sheet(s) including the co | | • • | | |
| 11) The oath or declaration is objected to by the | | | | |
| The bath of declaration is objected to by the | e Examiner. Note the attache | d Office Action of John P10-152. | | |
| riority under 35 U.S.C. § 119 | | | | |
| 12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the | nents have been received. nents have been received in A | Application No | | |
| application from the International Bu | | Ç | | |
| * See the attached detailed Office action for a | list of the certified copies not | received. | | |
| | | | | |
| | | | | |
| ttachment(s) | | | | |
| Notice of References Cited (PTO-892) | 4) 🔲 Interview | Summary (PTO-413) | | |
| |) Paper No(| Summary (PTO-413) s)/Mail Date Informal Patent Application (PTO-152) | | |

Application/Control Number: 09/973,186

Art Unit: 2876

DETAILED ACTION

Amendment

1. Receipt is acknowledged of the amendment filed on March 10, 2005. In the amendment claims 1, 2, 6, 7, 8, 17, 18 were amended. Currently, claims 1-38 remain for examination.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:
- 10 A person shall be entitled to a patent unless -

20

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-21, 23, 24, 26-31, and 33-38 are rejected under 35 U.S.C. 102(b) as being anticipated by Graef et al. (US 4,664,369, hereinafter "Graef").

Re claims 1-4, 8-12, 17, 18, 20, 21, 23, 24, 30, 31, and 33-38, Graef teaches a thickness indicator apparatus used in Automated Teller Machine (ATM) (see abstract; col. 2, lines 27+) for detecting double bills when the bills are retrieved from the stack (col. 1, lines 34+; col. 3, lines 58+; col. 6, lines 4+). The thickness detector is comprised of two elongated fingers 50 (or free ends) attached to a wishbone 45 (col. 4, lines 16+; see figure 3). When bills move between the plate 42 and the elongated fingers 50, the elongated fingers are displaced/pushed by the thickness of the bill (col. 4, line 51 – col. 5, line 37). Re claim 5, the bill moving path further comprised of a roller 12 and a counter rotating roller 36 (col. 3, lines 36+; col. 3, lines 60+).

Application/Control Number: 09/973,186 Page 3

Art Unit: 2876

5

10

20

Re claim 6, the thickness of the bill causes wishbone 45 to rotate about the pin 58 in counter clockwise direction (col. 5, lines 9+). Accordingly, the pin is considered a rotational axis.

Re claims 7, 13, 15, and 16, as bills pass between the plate 40 and elongated finger, the target 52 rotates toward the proximity sensor 66 (col. 4, lines 39+), and the sensor generates a voltage signal proportional to the distance between the sensor 66 and the target 52 in inductive manner.

Re claim 14, as shown in figure 1, the elongated finger 50 is connected to a spring-loaded locking means 64 (col. 4, lines 28-38).

Re claims 19 and 26-29, as shown in figure 3, the apparatus is comprised of a housing/frame 15 which houses a bill thickness detecting component (see figure 3; col. 3, lines 36+).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
 - 5. Claims 22, 25, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Graef et al. (US 4,664,369).
- Although Graef does not explicitly suggests the details of the housing as they are recited in the above-mentioned claims (snap-in bearings and grounding elements comprising braided

Art Unit: 2876

5

10

15

20

wire and metal lugs), it is the Examiner's view that Graef shows a box-type of housing which is substantially the same housing Applicant claims. Perhaps the component parts for building such housing may be different, but it is the Examiner's view that more substantial elements — thickness (or double bills) detection utilizing elongated fingers are disclosed by Graef. The differences in constructing housing may not patentable unless Applicant particularly points out patentablities of the housing.

Response to Arguments

6. Applicant's amended claims and arguments filed on March 10, 2005 have been carefully considered, but they are not persuasive. It is the Examiner's view that the Graef patent still discloses the subject matter recited in the amended claims.

Applicant amended claim 1 such that the claim 1 now recites "A method comprising withdrawing currency from a stack of bills for dispensing to a customer, by which the free end is moved by measuring relative rotation of the two inductively coupled elements." In doing so, Applicant argues that the amended claim overcame the rejection made with Graef patent. Examiner respectfully disagrees. As shown in Graef (figures 1 and 2), the wishbone-looking member 48 with two fingers 50 are displaced when the currency goes between the frame and the bottom parts 50 of the two finger 46. As further disclosed in figures 6-11, the target member is displaced toward the sensor 66. The wishbone member is mounted to the frame 15 by pin 58 which goes through the counter sunk hole 54. From the horizontal perspective (see figure 1; the line going through the spring 64 and pin 58), the target 52 rotates toward to or away from the sensor 62. The sensor 66 and target 52 work in inductive manner.

Art Unit: 2876

5

10

20

25

The amended claims and remarks describing these elements have been fully considered, but they are not persuasive, and therefore, the Examiner has made this Office Action final.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

- I. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure: Lee (US 5,971,392); Fujii et al. (US 4,729,556); Cannaverde et al. (US 5,203,555) discloses sheet processing apparatus. Applicant is respectfully suggested to review the cited prior arts.
 - II. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ahshik Kim whose telephone number is (571)272-2393. The examiner can normally be reached between the hours of 6:00AM to 3:00PM Monday thru Friday. The fax number directly to the Examiner is (571)273-2393.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael G. Lee, can be reached on (571)272-2398. The fax phone number for this Group is (703)872-9306.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [ahshik.kim@uspto.gov].

Application/Control Number: 09/973,186

Art Unit: 2876

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

10

Ahshik Kim Patent Examiner Art Unit 2876 May 27, 2005 Page 6

15